

A Quick Look at Inactivated Influenza Vaccines (trivalent and quadrivalent): IIV3, IIV4, IIV3 ID, IIV3 High Dose

Annual influenza vaccination is recommended for all persons 6 months of age and older, including all healthy persons!

Indications for Use and Schedule

- IIV3 (IM) or IIV4 (IM): For persons aged 6 months and older
 - Age range for use varies by brand
- IIV3 Intradermal (ID): For persons aged 18 through 64 years
- IIV3 High Dose (IM): For persons aged 65 years and older
- Begin vaccinating as soon as flu vaccine is available and continue throughout the flu season (until vaccine expires)

Use of Live Attenuated Influenza Vaccine (LAIV4)¹

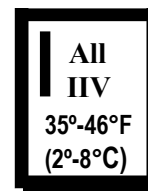
- For persons aged 9 years & older, there is no preference between LAIV4, IIV3 & IIV4.
- When both LAIV4 and IIV3 or IIV4 are available, LAIV4 is preferred for healthy children aged 2 through 8 years who have no contraindications or precautions to LAIV4.
- If LAIV4 is not available, IIV3 or IIV4 should be used. Vaccination should not be delayed!

Administration

- Administer IIV3, IIV4 & IIV3 High Dose IM²
 - Children: 1 inch needle
 - Adolescents/adults: 1-1.5 inch needle
- Administer IIV3 ID only over deltoid area of arm, using the manufacturer's pre-filled syringe
- Administer age-appropriate IIV3 or IIV4 dosage:
 - 6-35 months → 0.25 mL (each dose)
 - 3 years & older → 0.5 mL (each dose)
- IIV can be given with all other vaccines

Storage and Handling: **All IIV**

- Store in the refrigerator unit
- Do NOT freeze
- Keep in original box with lid on
- Store different IIV formulations apart & label with age indication
- Do NOT use expired vaccine



Information on 2-Dose Influenza Vaccine Pediatric Rule for Children aged 6 Months through 8 Years

- Because the vaccine strains are the same, children aged 6 months through 8 years who received at least 1 dose of 2013-14 seasonal flu vaccine from July 1, 2013 through June 30, 2014 only need 1 dose of 2014-15 seasonal flu vaccine.
 - However, some children in this age group may require 2 doses of flu vaccine to best protect them (separated by at least 4 weeks).
 - To determine who needs 2 doses, refer to "Who Needs 2 Doses of 2014-15 Seasonal Influenza Vaccine?" at www.michigan.gov/flu.
- Remember, when assessing a child's flu vaccine history to determine if one or two doses are needed, only review flu vaccine doses given prior to July 1, 2014 (do not include doses received during the 2014-15 flu season).

Contraindications (Persons who should not receive IIV3/IIV4)

- Serious allergic reaction (e.g. anaphylaxis) to a previous dose of flu vaccine or one of its components.

Precautions (In certain circumstances may receive IIV3/IIV4)

- Moderate or severe acute illness.
- History of Guillain-Barré Syndrome (GBS) within 6 weeks of a previous influenza vaccination.

****Note:** For persons who report an egg allergy: give Recombinant Influenza Vaccine, trivalent (RIV3) to those aged 18-49 years if available **or** determine if it is safe to give Inactivated Influenza Vaccine, trivalent (IIV3) or quadrivalent (IIV4).

- Refer to: "Influenza Vaccine Screening Algorithm for Persons who Report an Egg Allergy" available at www.michigan.gov/flu.

Further points to consider

- Febrile seizures occur in 2-5% of all children. Following simultaneous administration of IIV & PCV13, an increased risk for febrile seizures (<1 per 1,000 children vaccinated) was observed in children aged 16 mos-4 yrs. ACIP considered benefit of receiving IIV & PCV13 versus risk; no changes in recommendation have been made and, if needed, IIV & PCV13 should be given simultaneously.
- Give only IIV formulations with antiviral medications. Do not give LAIV. For further information: <http://www.cdc.gov/flu>.
- Use current IIV VIS including information about MCIR (for any brand of IIV3/IIV4). Michigan VIS posted at www.michigan.gov/immunize.
- Document all flu doses in Michigan Care Improvement Registry (MCIR) on the "Add Imm" screen under "Vaccine" as:
 - IIV3= multi-dose vials as "Influenza IIV3 (Inject)"; in pre-filled syringe & single-dose vials (0.25mL or 0.5mL) as "Influenza IIV3 (P-free inj)"
 - IIV3 ID= "Influenza Intradermal IIV3 (P-Free)"; IIV3 High Dose= "Influenza High Dose IIV3"
 - IIV4= multi-dose vials as "Influenza IIV4 (Inject)"; in pre-filled syringe & single-dose vials (0.25mL or 0.5mL) as "Influenza IIV4 (P-free inj)"
- Document the type of vaccine given on the vaccine administration record & record card as "IIV3", "IIV4" "IIV3 ID" or "IIV3 High Dose."
- ACIP has not expressed a preference between any IIV3 (including IIV3 ID, IIV3 High Dose) and IIV4 formulation.
- There are 2 other IIV3 formulations not included on this form; refer to package inserts for information on Recombinant Inactivated Vaccine, trivalent (RIV3; Flublok, Protein Science) or cell-cultured Inactivated Influenza Vaccine, trivalent (ccIIV3; Flucelvax, Novartis).

¹For further guidance on the influenza recommendations and the preference for LAIV4, refer to the "Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the ACIP, U.S., 2014-15 Influenza Season," MMWR, Vol. 63(32); 691-697 8/15/14 located at <http://www.cdc.gov/vaccines> and refer to "A Quick Look at Live, Attenuated Influenza Vaccine, Quadrivalent (LAIV4)" at www.michigan.gov/immunize (under Health Care Professionals/Providers).

²Administration site (anterolateral thigh or deltoid) will vary by age. Use professional judgment when determining site and needle length. Refer to "Administering Influenza Vaccines" (IIV3/IIV4, IIV3 High Dose & LAIV4) and "Administering Intradermal Influenza Vaccine" (IIV3 ID) at www.michigan.gov/flu.